

Spec 10598-501

Valve-Ball,8 inch, Pneumatically Actuated: 2 each required as specified

Ref. Device GN-GMV116-S

1 Design:

A. Size: 8" ANSI 16.5 class 1500# RTJ flanged ends, to match sch 160 pipe

B. Gaseous Nitrogen -65° F to 120° F

C. Design Pressure: 2600 psi

D. Valve shall be designed, manufactured, and tested in accordance with the ANSI B31.3-2002 Chemical Plant and Petroleum Refinery Piping. ASME B 16.10 Face to Face and End to End Dimensions of Valves

E. Valve leakage: Shall not exceed ANSI/FCI 70-2-1976 Class VI

F. Cv: 1400 Min

Features: bolted construction, double barrier stem seals, vent plugs, which allow the valve body cavities to be completely vented with the valve in the closed position under pressure Trapped or blow-out proof stem, Bi-directional Flow

3. Materials

A. Body = ASTM A351 CF8M Stainless Steel

B. Ball Material = ASTM A182 F6a 410 or 13/8 Stainless Steel

C. Integral Seat Ring Material = ASTM A351 CF8M

D. Upstream Seat = ASTM A182 F316 Stainless Steel w/ QPQ

E. Stem Material = ASTM A182 F316 Stainless Steel

Attachment 2

4. Valve Actuator

- A. Actuator shall be solenoid valve controlled utilizing 3 phase, 120 VAC, 60 HZ
- B. Actuator shall be spring return to normally closed
- C. Solenoid shall require no greater than a 30 Amp Service and conform to the NEC 2002.
- D. Solenoid shall have dry auxiliary contacts to provide on/off status to customer's PLC and disconnect.
- E. Remote on/off control capability, via dry electrical contracts from customer's programmable logic controller, must be provided
- F. Actuator shall be designed for 75-150 psig source pressure.
- G. Mechanical limit switches shall be provided.
- H. Valve must be manually lockable.
- I. Actuator must completely open the valve in 2 seconds under full pressure.

5 Valve documentation:

- A. Detailed parts list showing components and materials of construction.
- B. Drawing of valve showing overall dimensions and connection sizes.
- C. Operation instructions detailing how to trouble shoot, test, and maintain the valve.
- D. Electrical requirements shall be stated. Warranty terms and conditions shall be provided.
- E. Provide Electrical Schematic(s)/drawing(s).
- F. All electrical components and wiring must be clearly labeled as identified on electrical schematic(s)/drawing(s)

Attachment 2

5. Warranty: Guarantee for a period one year from date of shipment to be free from defective materials and workmanship